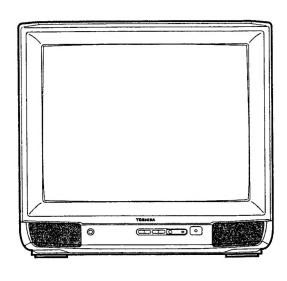
TOSHIBA

SERVICE MANUAL

COLOUR TELEVISION

C4E-R Chassis

2562TR



SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

- 1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 26.8 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 27.5 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
- The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
- Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.

For continued safety, replacement component should only be made after referring the Product Safety Notice below.

SAFETY PRECAUTION

 This receiver has a nominal working E.H.T. voltage of 24.5 kV. Extreme caution should be exercised when working on the receiver with the back removed.

Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.

When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
The C.R.T., if broken, will violently expel glass

The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.

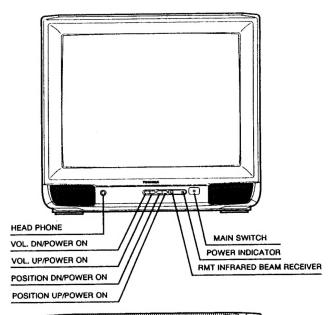
Do not hold the C.R.T. by the neck as this is a very dangerous practice.

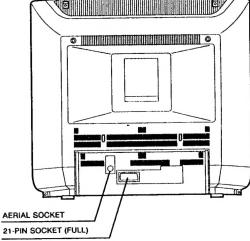
- It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.
- 3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate rating.
- Replace blown fuses within the receiver with the fuse specified in the parts list.
- 5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the orlginal.
- Keep wires away from high temperature components.

PRODUCT SAFETY NOTICE

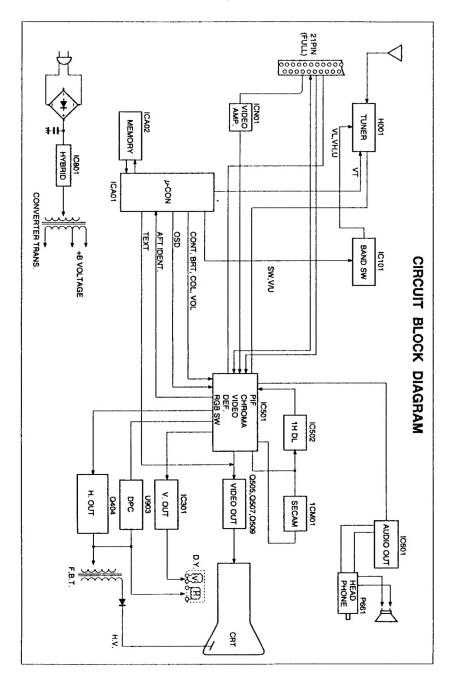
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

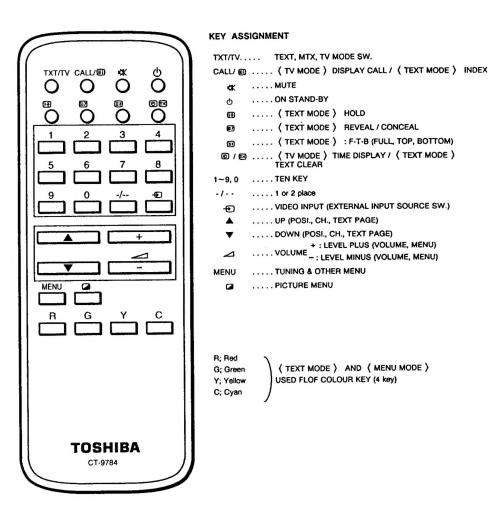
FRONT CONTROLS AND REAR VIEWS





REMOTE HAND HELD UNIT





WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

INSTALLATION AND SERVICE ADJUSTMENTS

GENERAL INFORMATIONS

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and BrW pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials.

Plug the power cord into a convenient 220 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or BW picture.

AUTOMATIC DEGAUSSING

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least 30 minutes in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source.

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUST-MENT on this chassis.

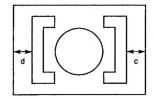
- Connect an accurate high voltage meter to the second anode of the picture tube.
- Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
- 3. High voltage will be measured below 27.5 kV.
- Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 27.5 kV under any conditions.

HEIGHT ADJUSTMENT

- Receive the WG PHILIPS pattern, and set the contrast and colour to minimum, and the brightness to centre.
- Adjust HEIGHT Control (R351) so that white blocks at top and bottom of the picture are just masked.

HORIZONTAL CENTRE ADJUSTMENT

- 1. Receive the WG PHILIPS pattern.
- Set the contrast and colour to minimum, and the brightness to centre.
- Adjust H. CENTER SUB Control (R451) so the pattern can be located for d-c to be +4.0 mm.



FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS. (T461) for well defined scanning lines in the centre area on the

DELAYED R-F AGC ADJUSTMENT

- 1. Tune the set in the strongest station in your area.
- Turn AGC DELAY Control (R151) on MAIN Board to fully counterclockwise position.
- Adjust AGC DELAY Control clockwise until noise (snow) disappears on the screen.

CRT GREY SCALE ADJUSTMENT

- Press VIDEO INPUT button on Remote Control unit to turn TV to video input mode. (Video input should have no signal.) Next press PICTURE SELECT button to select function and set CONTRAST to minimum, BRIGHTNESS to maximum, COLOUR to minimum.
- Turn the SCREEN Control (on T461) fully counterclockwise.
- Set the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) counterclockwise to the centre position.
- Set the GREEN and BLUE DRIVE Controls (R252, R253) to the centre position.
- 5. Set the CUT OFF SW. (S202) in the H. line position.
- 6. Set the SUB BRIGHTNESS Control to minimum.
- Rotate the SCREEN Control gradually clockwise until the first horizontal line of a colour (RED, GREEN or BLUE) appears slightly on the screen. Set the SCREEN Control to this position.
- Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE).
 The lines may look like white if the CUT OFF Controls are adjusted properly.
- Return the CUT OFF SW. (S202) in the receiving position. Press VIDEO INPUT button to turn TV to the TV mode.
- Set the BRIGHTNESS Control to the maximum and COLOUR Control to the centre.
- Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
- 12. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

SUB-BRIGHTNESS ADJUSTMENT

- 1. Tune in a colour programme of Philips pattern.
- Set the CONTRAST Control to the minimum and the BRIGHTNESS Control to the centre.
- 3. Set the COLOUR Control to the minimum.
- Set the SUB-BRIGHT. Control (R551) so that the voltage across terminals Y-Z can be 0.2±0.05V with voltmeter and leave the receiver for five minutes in this state.
- Watching the picture well, adjust the SUB-BRIGHT. Control in the position where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
- Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes
- 7. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to the minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT. Control again for the acceptable picture.

BUS DATA SETTING

- When QA01 only is replaced, it is not necessary to change the mode data.
- When memory IC (QA02) is replaced, change the mode data in the manner below.

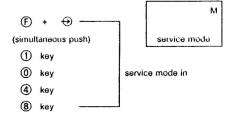
ADJUSTMEN METHOD FOR SERVICING

1.OUTLINE

In the service mode, MODE DATA adjustments can be made easily with user remote control unit. (CT-9689 only)

2.SERVICE MODE OPERATION

2-1. How to Enter the Service Mode



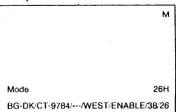
2-2. How to Exit from the Service Mode

Exit the service mode by turning the power on/off with the remote control.

3. ADJUSTMENT IN THE SERVICE MODE

Service Mode Level Adjustments

- Push (Ē) + → key (simultaneous push) to appear Mode Data to be adjusted.
- (2) Adjust with the level UP/DOWN (VOL UP/DOWN) key.



Example of screen display in level adjustment

PICTURE I-F ALIGNMENT

CABINET REPLACEMENT PARTS LIST

PRELIMINARY STEPS	Refer to figure 4 for test equipment connection. Supply $+5$ volts to the 5V-1 line. Connect to both leads of R101 with signal level of 75 dB $_{\mu_1}$ and open the
	solder-link at IF OUT of tuner on the Main Board. (See figure 4.)
DVM	Connect to pin #44 of IC501 on the Main Board through the detector.

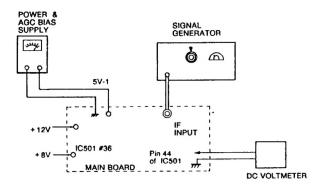
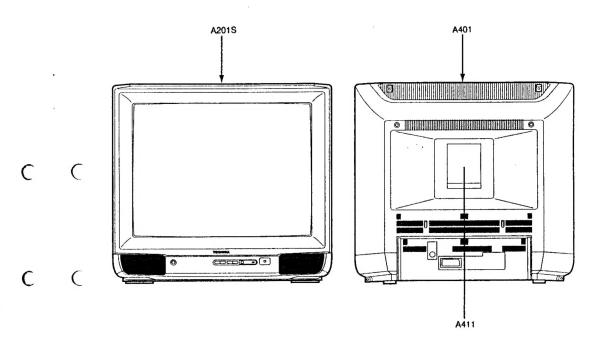


Figure 4. Picture IF Alignment

STEP	SIGNAL GENERATOR	ADJUST	REMARKS
Detector Coil	38.9 MHz CARRIER WAVE (Level 75 dB _µ)	T103	1. Supply external DC power (+5V) to 5V-1 line. 2. Supply +8V to pin 36 of IC501. 3. Supply external DC power to +12V line. 4. Apply test signal to IF input. 5. Adjust T103 so that DC voltage at pin 44 of IC501 becomes 3.5V ± 0.5V.

After completing the above steps, disconnect the equipment and re-solder the liniks on the Main Board, and adjust the AGC Delay Control (R151) following DELAYED RF AGC ADJUSTMENTS.



Location No. Part No. Description

A201S 23410602 Front Cover

△A401 23426410 Back Cover

A411 23560051 Label, Model No.

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CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols " A" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

NOTICE:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- •The PC board assembly with * mark is no longer available after the end of the production.

ABBREVIATIONS:

Capacitors...... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic Resistors..... CF : Carbon Film CC: Carbon Composition MF: Metal Film OMF: Oxide Metal Film VR: Variable Resistor FR: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Location No.	Part No.	Description
CAPACITO	RS	
C101	24232103	CD, 0.01µF, +80%, -20%
C102	24232103	CD, 0.01µF, +80%, -20%
C103	24232103	CD, 0.01µF, +80%, -20%
C104	24232103	CD, 0.01µF, +80%, -20%
C105	24232103	
C106	24232103	
C107	24794102	
C131	24538474	
C132	24474102	
C133	24474101	
C134	24590104	
C135	24794470	
C136	24232103	
C138		EL, 2.2μF, 50V
C141	24232103	
C142	24794100	
C143	24232103	
C144	24206229	
C145	24353120	
C161	24793101	
C162	24473560	
C163	24473560	
C168	24232103	
C190	24232103	
C193	24797229	
C195		CD, 0.01µF, +80%, -20%
C196		PF, 0.1μF
C197		PF, 0.1μF
C198		PF, 0.1μF CD, 0.01μF, +80%, -20%
C199		CD, 0.01μF, +80%, -20% PF, 0.047μF
C201		PF, 0.047μF
C202	24590473	
C203 C205		EL, 10µF, ±20%, 16V EL, 22µF, ±20%, 16V
C205 C240		PF, 0.47μF
C240		CD, 100pF, ±10%
C302		PF, 0.1µF
C304		CD, 4700pF, ±10%
C304		PF, 1000pF
C312		PF, 3900pF
C312	24030032	71, 0000pi

C313	Location No.	Part No.	Description
C315 24214221 CD, 220pF, ±10%, 500V C317 24617915 EL, 1µF, ±10%, 50V C323 24082049 PF, 0.047µF, 100V C325 24668221 EL, 220µF, ±20%, 35V C331 24668102 EL, 1000µF, ±20%, 35V C332 24082057 PF, 0.22µF, 100V C403 24206010 EL, 100µF, ±20%, 16V C403 24206010 EL, 1µF, 50V C406 24590472 PF, 4700pF C407 24590472 PF, 4700pF C408 2466631 EL, 330µF, ±20%, 16V C409 24232103 CD, 0.01µF, ±80%, -20% C410 24082261 PF, 5600pF, 100V C416 24214391 CD, 390pF, ±10%, 500V C417 24214421 CD, 820pF, ±10%, 500V C418 24709100 EL, 1µF, 550V C419 243203 PF, 0.022µF C421 24082673 PF, 0.047µF, 250V C422 24829473 PF, 0.047µF, 400V C423 24082673 PF, 0.047µF, 400V C440 24082583 PF, 7200pF, ±3%, 1500V C441 2421421 CD, 220pF, ±10%, 500V C441 24214221 CD, 220pF, ±10%, 500V C441 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1500V C444 24082517 PF, 5100pF, ±10%, 500V C444 24082517 PF, 5100pF, ±10%, 500V C444 24082517 PF, 5100pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1500V C445 24095803 PF, 0.05pF, ±10%, 500V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 470µF, ±20%, 16V C448 24609308 EL, 33µF, ±20%, 160V C449 246667102 EL, 1000pF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C466 24082712 PF, 1.5pF, 250V C4660 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF	C313	24538474	
C317	C314	24214151	
C318	C315	24214221	
C323 24082049 PF, 0.047μF, 100V C325 24668221 EL, 220μF, ±20%, 35V C326 2432103 CD, 0.01μF, ±80%, -20% C331 24668102 EL, 1000μF, ±20%, 35V C332 24082057 PF, 0.22μF, 100V C341 24666101 EL, 1000μF, ±20%, 16V C403 24206010 EL, 1μF, 50V C406 24590472 PF, 4700pF C408 24666331 EL, 330μF, ±20%, 16V C409 24232103 CD, 0.01μF, ±80%, -20% C410 24082261 PF, 5600pF, 100V C416 24213491 CD, 390pF, ±10%, 500V C417 24214821 CD, 820pF, ±10%, 500V C418 24799100 EL, 10μF, ±20%, 200V C419 24590223 PF, 0.022μF C421 24082673 PF, 0.047μF, 250V C422 24829473 PF, 0.047μF, 400V C422 24829473 PF, 0.047μF, 250V C440 24082583 PF, 700pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 5	C317	24617915	
C325 24668221 EL, 220µF, ±20%, 35V C326 24232103 CD, 0.01µF, ±80%, -20% C331 24668102 EL, 100µF, ±20%, 35V C332 24082057 PF, 0.22µF, 100V C341 24666101 EL, 10µF, ±20%, 16V C403 24206101 EL, 1µF, 50V C406 24590472 PF, 4700µF C407 24590472 PF, 4700µF C409 24232103 CD, 0.01µF, ±20%, 16V C409 24232103 CD, 0.01µF, ±20%, 16V C410 24082261 PF, 5600µF, 100V C411 24082261 PF, 5600µF, 100V C417 24214821 CD, 820µF, ±10%, 500V C418 24709100 EL, 10µF, ±20%, 200V C419 24590423 PF, 0.022µF C421 24082673 PF, 0.022µF C421 24082673 PF, 0.047µF, 250V C422 24829473 PF, 0.047µF, 250V C440 24082583 PF, 7200µF, ±3%, 1500V C441 24214221 CD, 220µF, ±10%, 500V C441 24214221 CD, 220µF, ±10%, 500V C444 24082517 PF, 5100µF, ±3%, 1500V C444 24082517 PF, 510µF, ±250V C444 24082673 PF, 0.056µF, ±3%, 1800V C445 24095903 PF, 0.056µF, ±10%, 500V C446 24666471 EL, 470µF, ±20%, 250V C448 2466908 EL, 33µF, ±20%, 160V C449 24667102 EL, 100µF, ±20%, 250V C448 2469908 EL, 33µF, ±20%, 160V C449 24667102 EL, 100µF, ±20%, 250V C466 24082712 PF, 1.5µF, ±20%, 250V C466 24082712 PF, 1.5µF, ±250V C466 24082712 PF, 1.5µF, ±250V C466 24082712 PF, 1.5µF, ±250V C466 2408269 PF, 0.03µF, ±50V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF	C318	24630798	
C326	C323	24082049	PF, 0.047μF, 100V
C331 24668102 EL. 1000μF, ±20%, 35V C332 24082057 PF, 0.22μF, 100V C403 24206010 EL, 1μF, 50V C406 24590472 PF, 4700pF C407 24590472 PF, 4700pF C408 24666331 EL, 330μF, ±20%, 16V C409 24232103 CD, 0.01μF, ±80%, -20% C416 24214391 CD, 330pF, ±10%, 500V C417 24214821 CD, 820pF, ±10%, 500V C418 24709100 EL, 10μF, ±20%, 200V C419 24590223 PF, 0.022μF C421 24082673 PF, 0.047μF, 250V C422 24829473 PF, 0.047μF, 400V C423 24082673 PF, 0.047μF, 250V C440 24082583 PF, 7200pF, ±10%, 500V C441 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1500V C445 24095903 PF, 0.05μF, ±10%, 550V C446 24666471 EL, 470μF, ±20%, 250V C448 24649908 EL, 32μF, ±20%, 160V C449 24667102 EL, 1000μF, ±20%, 250V C466 24082587 PF, 0.01μF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C466 24082712 PF, 15μF, 250V C466 24082712 PF, 1.5μF, 250V C466 2408269 PF, 0.33μF, ±50V C470 24666220 EL, 22μF, ±20%, 16V C471 24538474 PF, 0.47μF C470 F, 0.47μF	C325	24668221	EL, 220μF, ±20%, 35V
C332 24082057 PF, 0.22 µF, 100V C341 24666101 EL, 100 µF, ±20%, 16V C403 24290472 PF, 4700 µF C406 24590472 PF, 4700 µF C407 24590472 PF, 4700 µF C408 24666331 EL, 330 µF, ±20%, 16V C409 24232103 CD, 0.01 µF, ±80%, -20% C410 24082261 PF, 5600 µF, 100V C416 24214391 CD, 390 µF, ±10%, 500V C417 24214821 CD, 820 µF, ±10%, 500V C418 24709100 EL, 10 µF, ±20%, 200V C419 24590223 PF, 0.02 µF C421 24082673 PF, 0.02 µF C421 24082673 PF, 0.047 µF, 250V C422 24829473 PF, 0.047 µF, 400V C423 24082672 PF, 0.43 µF, ±250V C440 24082583 PF, 7200 µF, ±3%, 1500V C441 24214221 CD, 220 µF, ±10%, 500V C441 24214221 CD, 220 µF, ±10%, 500V C444 24082517 PF, 5100 µF, ±3%, 1500V C445 24095803 PF, 0.05 µF, ±10%, 500V C446 24666471 EL, 470 µF, ±20%, 16V C447 24679479 EL, 470 µF, ±20%, 16V C449 2466702 EL, 100 µF, ±20%, 25V C450 24082587 PF, 0.01 µF, ±3%, 630V C463 24212222 CD, 2200 µF, ±10% C466 24082659 PF, 0.01 µF, ±3%, 630V C463 24212222 CD, 2200 µF, ±10% C466 24082620 EL, 22 µF, ±20%, 16V C470 24666220 EL, 22 µF, ±20%, 16V C471 24538474 PF, 0.47 µF	C326	24232103	CD, 0.01µF, +80%, -20%
C341 24666101 EL. 100μF, ±20%, 16V C403 24206010 EL, 1μF, 50V C406 24590472 PF, 4700pF C407 24590472 PF, 4700pF C408 24666331 EL, 330μF, ±20%, 16V C410 24082261 PF, 5600pF, 100V C416 24214391 CD, 390pF, ±10%, 500V C417 24214821 CD, 820pF, ±10%, 500V C419 24590223 PF, 0.022μF C421 24082673 PF, 0.022μF C421 24082673 PF, 0.047μF, 250V C422 24829473 PF, 0.047μF, 250V C423 24082672 PF, 0.43μF, 250V C440 24082583 PF, 7200pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 500V C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1500V C444 24082517 PF, 5100pF, ±3%, 1500V C444 24082517 PF, 5100pF, ±3%, 1500V C444 24082517 PF, 5100pF, ±20%, 250V C446 24666471 EL, 470μF, ±20%, 250V C447 24679479 EL, 47μF, ±20%, 250V C448 24640908 EL, 33μF, ±20%, 160V C449 24667102 EL, 1000μF, ±20%, 25V C450 24095887 PF, 0.01μF, ±3%, 630V C466 24082669 PF, 0.33μF, ±20% 16V C466 24082669 PF, 0.33μF, 250V C470 24666220 EL, 22μF, ±20%, 16V C471 24538474 PF, 0.47μF	C331	24668102	EL, 1000μF, ±20%, 35V
C403	C332		
C406 24590472 PF, 4700pF C407 24590472 PF, 4700pF C408 2466321 EL, 330µF, ±20%, 16V C409 24232103 CD, 0.01µF, +80%, -20% C410 24082261 PF, 5600pF, 100V C416 2421431 CD, 390pF, ±10%, 500V C417 24214821 CD, 820pF, ±10%, 500V C418 24709100 EL, 10µF, ±20%, 200V C419 24590223 PF, 0.022µF C421 24082673 PF, 0.022µF C421 24082673 PF, 0.047µF, 250V C422 24829473 PF, 0.047µF, 250V C423 24082672 PF, 0.43µF, 250V C440 24082583 PF, 7200pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 500V C441 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24095903 PF, 0.056µF, ±10%, 250V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 470µF, ±20%, 16V C449 24667102 EL, 1000µF, ±20%, 25V C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C466 24082712 PF, 1.5µF, 250V C466 24082712 PF, 1.5µF, 250V C466 2408269 PF, 0.33µF, 250V C470 24666200 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF	C341		
C407 24590472 PF, 4700pF C408 24666331 EL, 330µF, ±20%, 16V C409 24322103 CD, 0.01µF, ±80%, -20% C410 24082261 PF, 5600pF, 100V C416 24214391 CD, 390pF, ±10%, 500V C417 24214821 CD, 820pF, ±10%, 500V C418 24709100 EL, 10µF, ±20%, 200V C419 24590223 PF, 0.022µF C421 24082673 PF, 0.047µF, 250V C422 24829473 PF, 0.047µF, 250V C423 24082672 PF, 0.43µF, 250V C440 24082583 PF, 7200pF, ±3%, 1500V C441 2421421 CD, 220pF, ±10%, 500V C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24095903 PF, 0.056µF, ±10%, 500V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 470µF, ±20%, 16V C448 24640908 EL, 33µF, ±20%, 160V C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C466 24082669 PF, 0.33µF, ±20% C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF	C403		
C408	C406		
C409 24232103 CD, 0.01µF, +80%, -20% C410 24082261 PF, 5600pF, 100V C416 24214391 CD, 390pF, ±10%, 500V C417 24214821 CD, 820pF, ±10%, 500V C418 24709100 EL, 10µF, ±20%, 200V C419 24590223 PF, 0.022µF C421 24082673 PF, 0.022µF C422 24029473 PF, 0.047µF, 250V C422 24029473 PF, 0.047µF, 400V C423 24082672 PF, 0.47µF, 250V C440 24082583 PF, 7200pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 500V C441 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24095903 PF, 0.056µF, ±10%, 250V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 47µF, ±20%, 250V C448 2464998 EL, 33µF, ±20%, 160V C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C466 24082712 PF, 1.5µF, 250V C466 2408269 PF, 0.33µF, ±250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF	C407		
C410 24082261 PF, 5600pF, 100V C416 24214391 CD, 390pF, ±10%, 500V C417 24214821 CD, 820pF, ±10%, 500V C418 24709100 EL, 10μF, ±20%, 200V C419 24590223 PF, 0.022μF C421 24082673 PF, 0.047μF, 250V C422 24829473 PF, 0.047μF, 250V C423 24082672 PF, 0.43μF, 250V C440 24082583 PF, 7200pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 500V C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24059903 PF, 0.056μF, ±10%, 250V C446 24666471 EL, 470μF, ±20%, 16V C447 24679479 EL, 47μF, ±20%, 16V C448 24640908 EL, 33μF, ±20%, 160V C449 24667102 EL, 1000μF, ±20%, 25V C450 24095887 PF, 0.01μF, ±3%, 630V C463 2421222 CD, 2200pF, ±10% C466 24082669 PF, 0.33μF, 250V C466 24082669 PF, 0.33μF, 250V C470 24666220 EL, 22μF, ±20%, 16V C471 24538474 PF, 0.47μF	C408		
C416 24214391 CD, 390pF, ±10%, 500V C417 24214821 CD, 820pF, ±10%, 500V C418 24799100 EL, 10µF, ±20%, 200V C419 24590223 PF, 0.022µF C421 24082673 PF, 0.022µF C422 24829473 PF, 0.047µF, 250V C423 24082672 PF, 0.47µF, 250V C440 24082583 PF, 7200pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 500V C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24095903 PF, 0.056µF, ±10%, 250V C446 24666471 EL, 470µF, ±20%, 160V C447 24679479 EL, 4.7µF, ±20%, 160V C448 24649908 EL, 32µF, ±20%, 160V C449 24667102 EL, 1000µF, ±20%, 150V C450 24095887 PF, 0.01µF, ±3%, 630V C463 2421222 CD, 2200pF, ±10% C466 24082669 PF, 0.33µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF	C409	24232103	
C417	C410		
C418 24709100 EL, 10μF, ±20%, 200V C419 24590223 PF, 0.022μF C421 24082673 PF, 0.047μF, 250V C422 24829473 PF, 0.047μF, 250V C423 24082672 PF, 0.43μF, 250V C440 24082583 PF, 7200pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 500V C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24095903 PF, 0.056μF, ±10%, 250V C446 24666471 EL, 470μF, ±20%, 16V C447 24679479 EL, 4.7μF, ±20%, 16V C448 24640908 EL, 33μF, ±20%, 160V C449 24667102 EL, 1000μF, ±20%, 25V C450 24095887 PF, 0.01μF, ±3%, 630V C463 2421222 CD, 2200pF, ±10% C466 24082669 PF, 0.33μF, 250V C466 24082669 PF, 0.33μF, 250V C470 24666220 EL, 22μF, ±20%, 16V C471 24538474 PF, 0.47μF	C416		
C419	C417		
C421 24082673 PF. 0.47µF, 250V C422 24829473 PF. 0.047µF, 400V C423 24082672 PF. 0.43µF, 250V C440 24082583 PF. 7200pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24095903 PF, 0.056µF, ±10%, 250V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 470µF, ±20%, 16V C449 24667102 EL, 1000µF, ±20%, 25V C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C466 24082712 PF, 1.5µF, 250V C466 24082712 PF, 1.5µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF	C418		
C422 24829473 PF, 0.047µF, 400V C423 24082672 PF, 0.43µF, 250V C440 24082583 PF, 7200pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 500V C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24082517 PF, 5100pF, ±3%, 1800V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 47µF, ±20%, 16V C448 24640908 EL, 33µF, ±20%, 160V C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 2421222 CD, 2200pF, ±10% C466 24082669 PF, 0.33µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF	C419		
C423 24082672 PF, 0.43μF, 250V C440 24082583 PF, 7200pF, ±3%, 1500V C441 24214221 CD, 220pF, ±10%, 500V C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24095903 PF, 0.056μF, ±10%, 250V C446 24666471 EL, 470μF, ±20%, 16V C447 24679479 EL, 470μF, ±20%, 160V C448 24640908 EL, 33μF, ±20%, 160V C449 24667102 EL, 1000μF, ±20%, 25V C450 24095887 PF, 0.01μF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C466 2408269 PF, 0.33μF, 250V C470 24666220 EL, 22μF, ±20%, 16V C471 24538474 PF, 0.47μF	C421		
C440 24082583 PF, 7200pF, ±3%, 1500V C441 2421421 CD, 220pF, ±10%, 500V C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24095903 PF, 0.056µF, ±10%, 250V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 47µF, ±20%, 250V C448 24640908 EL, 33µF, ±20%, 160V C449 24687102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C466 24082712 PF, 1.5µF, 250V C466 2408269 PF, 0.33µF, ±50V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C422		
C441 24214221 CD, 220pF, ±10%, 500V C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 1800V C445 24082517 PF, 5100pF, ±3%, 1800V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 47µF, ±20%, 250V C448 2466908 EL, 33µF, ±20%, 160V C449 24667102 EL, 1000µF, ±20%, 250V C450 24095887 PF, 0.01µF, ±3%, 630V C463 2421222 CD, 2200pF, ±10% C466 2408269 PF, 0.33µF, 250V C466 2408269 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF	C423	24082672	
C443 24214221 CD, 220pF, ±10%, 500V C444 24082517 PF, 5100pF, ±3%, 18000V C445 24095903 PF, 0.056μF, ±10%, 250V C446 24666471 EL, 470μF, ±20%, 16V C447 24679479 EL, 4.7μF, ±20%, 160V C448 24640908 EL, 33μF, ±20%, 160V C449 24667102 EL, 1000μF, ±20%, 25V C450 24095887 PF, 0.01μF, ±3%, 630V C463 2421222 CD, 2200pF, ±10% C466 24082669 PF, 0.33μF, 250V C470 24666220 EL, 22μF, ±20%, 16V C471 24538474 PF, 0.47μF	C440		
C444 24082517 PF, 5100pF, ±3%, 1800V C445 24095903 PF, 0.056µF, ±10%, 250V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 4.7µF, ±20%, 250V C448 24649908 EL, 32µF, ±20%, 160V C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C464 24082712 PF, 1.5µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C441	24214221	
C445 24095903 PF, 0.056µF, ±10%, 250V C446 24666471 EL, 470µF, ±20%, 16V C447 24679479 EL, 470µF, ±20%, 250V C448 24640908 EL, 32µF, ±20%, 160V C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200µF, ±10% C464 24082712 PF, 1.5µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24588474 PF, 0.47µF C480 24538474 PF, 0.47µF	C443		
C446 24666471 EL, 470,µF, ±20%, 16V C447 24679479 EL, 4.7,µF, ±20%, 250V C448 24640908 EL, 33,µF, ±20%, 160V C449 24667102 EL, 1000,µF, ±20%, 25V C450 24095887 PF, 0.01,µF, ±3%, 630V C463 24212222 CD, 2200,pF, ±10% C466 2408269 PF, 0.33,µF, 250V C470 24666220 EL, 22,µF, ±20%, 16V C471 24538474 PF, 0.47,µF C480 24538474 PF, 0.47,µF	C444	24082517	
C447 24679479 EL, 4.7µF, ±20%, 250V C448 24640908 EL, 33µF, ±20%, 160V C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C466 24082712 PF, 1.5µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C445	24095903	
C448 24640908 EL, 33µF, ±20%, 160V C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C464 24082712 PF, 1.5µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C446	24666471	
C449 24667102 EL, 1000µF, ±20%, 25V C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C464 24082712 PF, 1.5µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C447	24679479	
C450 24095887 PF, 0.01µF, ±3%, 630V C463 24212222 CD, 2200pF, ±10% C464 24082712 PF, 1.5µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C448	24640908	
C463 24212222 CD, 2200pF, ±10% C464 24082712 PF, 1.5µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C449	24667102	
C464 24082712 PF, 1.5µF, 250V C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, 220%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C450	24095887	PF, 0.01μF, ±3%, 630V
C466 24082669 PF, 0.33µF, 250V C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C463		
C470 24666220 EL, 22µF, ±20%, 16V C471 24538474 PF, 0.47µF C480 24538474 PF, 0.47µF	C464		
C471 24538474 PF, 0.47μF C480 24538474 PF, 0.47μF	C466	24082669	
C480 24538474 PF, 0.47µF	C470		
	C471		
C481 24666101 EL, 100µF, ±20%, 16V	C480		
	C481	24666101	EL, 100μF, ±20%, 16V

Location No.	Part No.	Description
C482	24666101	EL, 100µF, ±20%, 16V
C501	24590104	PF, 0.1μF
C502	24232103	CD, 0.01µF, +80%, -20%
C503	24794221	EL, 220µF, ±20%, 16V
C504	24797478	EL, 0.47μF, ±20%, 50V
C505	24794100	EL, 10µF, ±20%, 16V
C506	24473680	CD, 68pF
C507	24473680	CD, 68pF
C508	24473680	CD, 68pF
C509	24797100	EL, 10μF, ±20%, 50V
C511	24590104	PF, 0.1μF
C512	24590104	PF, 0.1μF
C513	24590104	PF, 0.1μF
C514	24590472	PF, 4700pF
C516	24212561	CD, 560pF, ±10%
C517	24794470	EL, 47μF, ±20%, 16V
C518	24590473	PF, 0.047μF
C520	24590102	PF, 1000pF
C521	24590102	PF, 1000pF
C531	24436561	CD, 560pF
C532	24436561	CD, 560pF
C533	24436681	CD, 680pF
C534	24794471	EL, 470µF, ±20%, 16V
C536	24797479	
C601	24795471	EL, 470µF, ±20%, 25V
C602	24590104	PF, 0.1μF
C603	24795221	EL, 220µF, ±20%, 25V
C604	24474221	CD, 220pF, ±10%
C605	24206010	EL, 1μF, 50V
C606	24795220	EL, 22μF, ±20%, 25V
C607	24590682	PF, 6800pF
C608	24797010	EL, 1μF, ±20%, 50V
C609	24794470	EL, 47μF, ±20%, 16V
C610	24206010	EL, 1µF, 50V
C611	24212271	CD, 270pF, ±10%
C612	24212102	CD, 1000pF, ±10%
C613	24206010 24797100	EL, 1µF, 50V
C616		EL, 10μF, ±20%, 50V EL, 1μF, 50V
C617 C618	24206010 24797470	EL, 47µF, ±20%, 50V
C619	24590332	PF, 3300pF
C620	24797229	EL, 2.2μF, ±20%, 50V
C622	24797010	EL, 1µF, ±20%, 50V
C624	24232103	CD, 0.01µF, +80%, -20%
C625	24797470	EL, 47μF, ±20%, 50V
C626	24232103	CD, 0.01µF, +80%, -20%
C627	24232103	CD, 0.01µF, +80%, -20%
∆ C801	24082363	PF, 0.22μF, ±20%, AC250V
△ C802	24094656	CD, 2200pF, ±20%, AC400
∆ C803	24094656	CD, 2200pF, ±20%, AC400
∆ C807	24092281	CD. 4700pF. +20%. AC250
∆ C808	24092281	CD, 4700pF, ±20%, AC250
C809	24086037	EL, 270µF, ±20%, 400V
C812	24092341	CD, 470pF, ±10%, 2kV
∆C813	24095931	PF, 2200pF, 1250V
C814	24590223	PF, 0.022µF
C815	24590182	PF, 1800pF
C816	24666470	EL, 47µF, ±20%, 16V
C817	24676220	EL, 22µF, ±20%, 100V
C820	24794470	EL, 47µF, ±20%, 16V
C828	24212101	CD, 100pF, ±10%
C829	24795102	EL, 1000µF, ±20%, 25V
C830	24092337	CD, 220pF, ±10%, 2kV
C831	24086953	EL, 220µF, ±20%, 160V

Location No.	Part No.	Description
C835	24797479	EL, 4.7μF, ±20%, 50V
C836	24797100	
C837	24797100	EL, 10μF, ±20%, 50V
C838	24538474	PF, 0.47μF
C849	24214471	CD, 470pF, ±10%, 500V
C901		EL, 10µF, ±20%, 250V
C902	24095931	PF, 2200pF, 1250V
CA01	24590333	PF, 0.033µF
CA14 CA15	24232103	CD, 0.01µF, +80%, -20% EL, 10µF, ±20%, 16V
CA16	24794100	CD 0.01-E -909 209
CA18	24232103	CD, 0.01μF, +80%, -20% CD, 0.01μF, +80%, -20%
CA19		EL, 47µF, ±20%, 16V
CA20	24474101	CD, 100pF, ±10%
CA21		CD, 47pF, 500V
CA22		PF, 0.1µF
CA23	24590104	
CA24	24590104	PF 0.1uF
CA37	24590104	PF. 0.1µF
CA39	24474391	CD, 390pF, ±10%
CA40		CD, 220pF, ±10%
CA42	24590104	
CA43	24590104	PF, 0.1μF
CA44		EL, 47µF, ±20%, 16V
CA45	24473560	
CA46	24473560	
CA47	24212103	CD. 0.01µF. ±10%
CA48	24232103	CD. 0.01µF. +80%20%
CA49	24475222	CD, 0.01µF, +80%, -20% CD, 2200pF, 16V
CA50	24797479	EL, 4.7μF, ±20%, 50V
CD01	24796220	EL. 22µF. ±20%. 35V
CD06	24796470	EL, 47μF, ±20%, 35V EL, 470μF, ±20%, 35V
CD07	24796471	EL, 470µF, ±20%, 35V
CD08	24538124	PF, 0.12μF
CD09	24538124	
CD10	24617981	EL, 2.2µF, ±10%, 50V
CD11	24676339	EL, 3.3µF, ±20%, 100V PF, 0.022µF
CM02	24590223	PF, 0.022μF
CM03	24330104	ττ, υ.τμι
CM04	24538224	PF, 0.22μF
CN02		EL, 10μF, ±20%, 16V
CN03		EL, 10μF, ±20%, 16V
CV01	24794101	EL, 100μF, ±20%, 16V
CV02	24/934/1	EL, 470µF, ±20%, 10V CD, 0.01µF, +80%, -20%
CV03	24232103	CD, 0.01µF, +80%, -20%
CX08	24590104 24590104	PF, 0.1µF
CX09		
CX10	24590104	rr, U.1μr
RESISTORS		
	24266101	CF 100 -b
R101	24366101 24366103	CF, 100 ohm
R102		CF, 10k ohm
R103	24366103	CF, 10k ohm
R104 R105	24366392 24366103	CF, 3900 ohm
R135	24366682	
R136	24366122	
R137	24366681	CF, 1200 ohm CF, 680 ohm
R138	24366360	CF, 36 ohm
R140		CF, 100k ohm
R141	24366122	CF 1200 ohm
R142	24366472	
R143	24366122	
R145	24366183	CF, 18k ohm

Location No.	Part No.	Description
R151	24066926	VR, 10k ohm, 1/10W
R161	24366183	CF, 18k ohm
R162	24366681	CF, 680 ohm
R163	24366682	CF, 6800 ohm
R171 R172	24366153 24366101	CF, 15k ohm CF, 100 ohm
R173	24366271	CF, 270 ohm
R174	24366392	CF, 3900 ohm
R175	24366471	CF, 470 ohm
R177	24366101	CF, 100 ohm
R178	24366102	CF, 1k ohm
R179	24366391	
R180 R181	24366331 24366151	
R182	24366820	
R185	24366101	
R186	24366391	CF, 100 ohm CF, 390 ohm
R187	24366223	CF, 22k ohm
R188	24366223	CF, 22k ohm
R189		CF, 1k ohm
R191	24942226	
R201	24366511	CF, 510 ohm CF, 47k ohm
R203 R205	24366473 24366274	CF, 270k ohm
R206	24366103	CF, 10k ohm
R207	24366103	CF, 10k ohm
R211		CF, 15k ohm
R212		CF, 18k ohm
R213		CF, 910 ohm
R215	24366621	
R217	24366103 24366183	CF, 10k ohm
R240 R241	24366123	CF, 18k ohm CF, 12k ohm
R252	24066596	
R253	24066596	VR, 500 ohm, 1/10W
R301	24366155	CF, 1.5M ohm
R302	24366564	CF, 560k ohm
R304	24366102	CF, 1k ohm
R311	24366101	CF, 100 ohm
R316 R317	24366102 24366103	
R318	24366473	
R319	24383271	
R320	24383271	OMF, 270 ohm, 2W
R321	24366303	CF, 30k ohm CF, 240k ohm
R322	24366244	
R323	24322518	OMF, 0.51 ohm, 1W
R325 R327	24366153 24339479	CF, 15k ohm MF, 4.7 ohm, 2W
R330	24321159	MF, 1.5 ohm, 1/2W
R333	24366622	CF, 6200 ohm
R334	24383751	OMF, 750 ohm, 2W
R340	24366473	CF, 47k ohm
R341	24366182	CF, 1800 ohm
R342	24366562	CF, 5600 ohm
R343	24310109	MF, 1.0 ohm, 1/2W CF, 3900 ohm
R344 R345	24366392 24382470	OMF 47 ohm 1W
R351	24066606	VR, 1M ohm, 1/10W
R360	24366392	CF, 3900 ohm
R403	24366153	CF, 15k ohm
R407	24366222	CF, 2200 ohm
R409	24366564	
R410	24552472	OMF, 4700 ohm, 1/2W
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Location No.	Part No.	Description
R411	24366271	CF, 270 ohm
R414	24366221	CF, 220 ohm
R415	24382272	OMF, 2700 ohm, 1W
R416	24510562	OMF, 2700 ohm, 1W Cement, 5600 ohm, 5W
R417	24366472	CF, 4700 ohm
R418	24366681	
R419	24366562	
R420 R422	24366222 24366273	CF, 2200 ohm CF, 27k ohm
R440	24366103	CF, 10k ohm
R441	24366103	CF, 10k ohm
R442	24382102	OMF, 1k ohm, 1W
R444	24220200	ME 0.20 ohm 1W
R446	24533151	FR, 150 ohm, 2W MF, 0.33 ohm, 1W VR, 10k ohm, 1/10W MF, 0.56 ohm, 1W
R448	24338338	MF, 0.33 ohm, 1W
R451	24066600	VR, 10k ohm, 1/10W
R470	24338568	MF, 0.56 ohm, 1W
R471	24552101	OMF, 100 ohm, 1/2W
R472	24376393	
*R474	24366331	CF, 330 ohm
R475	24366102	
R477 R480		CF, 15k ohm FR, 2.2 ohm, 1/2W
R501		CF, 3300 ohm
R502		CF, 4700 ohm
R503	24366221	CF. 220 ohm
R504	24366221	CF, 220 ohm CF, 220 ohm
R505	24366221	CF, 220 ohm
R506	24366183	CF, 18k ohm
R512		CF, 100k ohm
R513		CF, 47k ohm
R514	24552221	OMF, 220 ohm, 1/2W
R517	24366103	CF, 10k ohm CF, 1k ohm CF, 1k ohm
R521 R523	24366102	CF, 1k ohm
R525	24366102	CF, 1k ohm
R528		CF, 220 ohm
R529	24366681	CF, 680 ohm
R530	24366472	CF, 4700 ohm CF, 4700 ohm
R531	24366472	CF, 4700 ohm
R532	24366122	CF, 1200 ohm
R533	24366331	CF, 330 ohm
R534		CF, 330 ohm
R535	24366331	CF, 330 ohm
R536	24300152	CF, 1500 ohm CF, 1500 ohm
R537 R538	24300102	CF, 1500 ohm
R540	24366222	CF, 2200 ohm
R541		CF, 2200 ohm
R543	24366222	CF, 2200 ohm
R547	24552560	OMF, 56 ohm, 1/2W
R548	24366101	CF, 100 ohm
R551	24066600	VR, 10k ohm, 1/10W
R557	24066600	VR, 10k ohm, 1/10W
R558	24066600	VR, 10k ohm, 1/10W
R559	24066600	VR, 10k ohm, 1/10W
R561	24366270	CF, 27 ohm
R562	24366680 24366100	CF, 68 ohm
R563 R564	24300100	CF, 10 ohm CF, 180 ohm
	24366181	CF, 180 ohm
R565		,
R565 R574		CF, 6200 ohm
R565 R574 R575	24366622	CF, 6200 ohm CF, 13k ohm CF, 10k ohm

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Location No.	Part No.	Description		Location No.	Part No.	Description
R591	24383153	OMF, 15k ohm, 2W	1	R868	24366472	CF, 4700 ohm
R592	24383153	OMF, 15k ohm, 2W		R870	24383822	OMF, 8200 ohm, 2W
R593	24383153	OMF, 15k ohm, 2W	1	R871	24366472	CF, 4700 ohm
R601	24366339	CF, 3.3 ohm	1	R872	24569339	Cement, 3.3 ohm, 10W
R602	24366123	CF, 12k ohm		R878	24531270	FR, 27 ohm, 1/2W
R603	24366182	CF, 1800 ohm	1	R879	24366472	CF, 4700 ohm
R604	24366103	CF, 10k ohm		R884	24531120	FR, 12 ohm, 1/2W
R605	24323479	OMF, 4.7 ohm, 2W		⚠ R890	24019340	PTC Thermistor,
R606	24552331	OMF, 330 ohm, 1/2W	1	R893	24366103	18 ohm, 290V CF, 10k ohm
R607	24366103	CF, 10k ohm	1	R901	24552272	OMF, 2700 ohm, 1/2W
R608	24552331	OMF, 330 ohm, 1/2W		R902	24552272	OMF, 2700 ohm, 1/2W
R615	24366562 24366562	CF, 5600 ohm CF, 5600 ohm		R903	24552272	OMF, 2700 ohm, 1/2W
R616	24366273	CF, 27k ohm	1	R920	24000884	FR, 3 ohm, 1W
R618 R621	24366222	CF, 2200 ohm		RA01	24366103	CF, 10k ohm
R622	24366682	CF, 6800 ohm		RA02	24366103	CF, 10k ohm
R623	24366682	CF, 6800 ohm		RA03	24366103	CF, 10k ohm
R624	24366681	CF, 680 ohm		RA05	24366103	CF, 10k ohm
R625	24366104	CF, 100k ohm		RA06	24366103	CF, 10k ohm
R626	24366103	CF, 10k ohm		RA07	24366472	CF, 4700 ohm
R627	24366153	CF, 15k ohm		RA09	24019001	MF, 100k ohm, ±1%, 1/4W
R628	24366104	CF, 100k ohm	1	RA14	24366102	CF, 1k ohm
R629	24366153	CF, 15k ohm	1	RA15	24366102	CF, 1k ohm
R630	24366392	CF, 3900 ohm	1	RA16	24366102	CF, 1k ohm
R638	24366102	CF, 1k ohm	1	RA17	24366471	CF, 470 ohm
R639	24366683	CF, 68k ohm	1	RA18	24366561	CF, 560 ohm
R641	24366103	CF, 10k ohm	l	RA21	24366683	CF, 68k ohm
R642	24366153	CF, 15k ohm	1	RA24	24366225	CF, 2.2M ohm
R644	24366332	CF, 3300 ohm		RA25	24366333	CF, 33k ohm CF, 33k ohm
R645	24366204	CF, 200k ohm	ı	RA27 RA28	24366333 24000242	MF, 18k ohm, ±1%, 1/4W
R646	24366392	CF, 3900 ohm	i .	RA33	24366391	CF. 390 ohm
R647 △R801	24366153 24009954	CF, 15k ohm Metal-Glazed Resistor,	1	RA34	24000245	MF, 33k ohm, ±1%, 1/4W
Z50001	24009954	2.2M ohm, 1/2W		RA35	24366471	CF, 470 ohm
R803	24366684	CF, 680k ohm	1	RA37	24366273	CF, 27k ohm
R804	24366561	CF, 560 ohm	1	RA40	24366391	CF, 390 ohm
R805	24377394	CF, 390k ohm, 1W	1	RA41	24366103	CF, 10k ohm
R806	24383390	OMF, 39 ohm, 2W	1	RA42	24366103	CF, 10k ohm
R807	24383390	OMF, 39 ohm, 2W	1	RA46	24366103	CF, 10k ohm
R808	24531100	FR, 10 ohm, 1/2W		RA49	24366103	CF, 10k ohm
R809	24366561	CF, 560 ohm		RA54	24366472	CF, 4700 ohm
R810	24366561	CF, 560 ohm		RA55	24366471	CF, 470 ohm
R811	24322278	MF, 0.27 ohm, 1W	1	RA56	24366471 24366103	CF, 470 ohm CF, 10k ohm
R812	24366470	CF, 47 ohm		RA57 RA58	24366222	CF, 2200 ohm
R813	24366301	CF, 300 ohm		RA59	24366471	CF, 470 ohm
R814	24366102 24366561	CF, 1k ohm CF, 560 ohm		RA60	24366331	CF, 330 ohm
R815 R816	24366103	CF, 10k ohm	1	RA61	24366103	CF, 10k ohm
R817	24366102	CF, 1k ohm		RA64	24366103	CF, 10k ohm
R818	24366102	CF, 1k ohm	1	RA65	24366103	CF, 10k ohm
R819	24381100	OMF, 10 ohm, 1/2W	1	RA70	24366332	CF, 3300 ohm
R820	24366561	CF, 560 ohm	1	RA71	24366682	CF, 6800 ohm
R825	24366472	CF, 4700 ohm	1	RA72	24366203	CF, 20k ohm
R828	24366339	CF, 3.3 ohm	1	RA76	24366103	CF, 10k ohm
R842	24366681	CF, 680 ohm		RA78	24366102	CF, 1k ohm
R843	24366821	CF, 820 ohm		RA81	24366471	CF, 470 ohm
 AR844	24005007	Metal-Glazed Resistor,	1	RA86	24366103	CF, 10k ohm
		8.2M ohm, 1W	1	RA88	24366103	CF, 10k ohm
R848	24366392	CF, 3900 ohm		RA90	24366103 24366102	CF, 10k ohm CF, 1k ohm
R860	24366561	CF, 560 ohm	1	RA91 RA92	24366473	CF, 47k ohm
R864	24382560	OMF, 56 ohm, 1W	1	RA92	24366123	CF, 12k ohm
R865	24366681 24366471	CF, 680 ohm CF, 470 ohm	1	RA97	24366152	CF, 1500 ohm
R866 R867	24366103		1	RA98	24366154	
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Locatio	n	D
No.	" Part No.	Description
RA99	24366564	CF, 560k ohm
RD01	24000211	FR, 15 ohm, 1/2W
RD02	24323229	MF, 2.2 ohm, 2W
RD03	24366562	CF, 5600 ohm
RD05	24552272	OMF, 2700 ohm, 1/2W
RD06	24366182	CF, 1800 ohm
RD07	24366683	CF, 68k ohm
RD08	24366203	CF, 20k ohm
RD09	24366152	CF, 1500 ohm
RD10	24366102	
RD11	24366224	CF, 220k onm
RD12	24366822	
RD13	24366223	
RD14	24366103	
RD15	24366104	CF, 100k ohm
RD16	24366752	CF, 7500 ohm CF, 4700 ohm
RD18	24366472	CF, 4700 ohm
RD19	24366272	CF, 2700 ohm
RD20	24366273	
RD50	24066927	VR, 5k ohm, 1/10W
RD51	24066925	
RE01	24366391	CF, 390 ohm
RN01	24366101	CF, 100 ohm
	24552221	OMF, 220 ohm, 1/2W
RN02		
RN05	24366564	CF, 560k ohm
RN07	24366223	CF, 22k ohm CF, 150 ohm
RV01	24366151	CF, 150 ohm
RV02	24382101	OMF, 100 ohm, 1W
RV03	24552101	OMF, 100 ohm, 1/2W
RV04	24366680	CF, 68 ohm
RV05	24366103	CF, 10k ohm CF, 1k ohm
RV06	24366102	CF, 1k ohm
RV08	24366560	CF, 56 ohm
RV09	24366102	CF. 1k ohm
RV10	24366750	CF, 75 ohm
RV11	24366102	
RV12	24366750	CF, 75 ohm
RV13	24366102	CE 1k ohm
RV14	24366750	CF, 1k ohm CF, 75 ohm
		CF, 75 Ohm
RV15		CF, 75 ohm
RV16		CF, 6800 ohm
RV17	24366102	CF, 1k ohm
RV19	24366183	CF, 18k ohm CF, 1800 ohm
RV22	24366182	CF, 1800 ohm
RV23	24366102	
RV24	24366751	CF, 750 ohm
RV25	24366102	
RV26	24366391	CF, 390 ohm
RV27	24366391	CF, 390 ohm
RV28	24366391	CF, 390 ohm
RV29	24366681	
RV30		CF, 680 ohm
RX08	24366222	CF 2200 ohm
RX09	24366222	CF, 2200 ohm CF, 2200 ohm
		CF, 2200 OHH
RX10	24366222	CF, 2200 ohm
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COILS 8	& TRANSFOR	
L101	23238560	Coil, Peaking, TRF4R68AJ
L102	23221803	
L105	23261986	Coil, RF Choke, TRF9220
L107	23238713	Coil, Peaking, TRF4120AJ
L108	23238715	Coil, Peaking, TRF4120AJ Coil, Peaking, TRF4829AJ
L311	23238715 23103859	Coil (Ferrite Bead), TEM2011
L410		Coil, Peaking, TRF4100AF
	23203.00	,

LA02 23289109 Coil, Peaking, TŘF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM2011 LA04 23103859 Coil (Ferrite Bead), TEM2011 LA05 23103859 Coil (Ferrite Bead), TEM2011 LD02 23221896 Coil, Choke, TLN3061 LV01 23238714 Coil, Peaking, TRF4100AJ T103 23262813 Coil, IF, TRF1077D T401 23224336 Transformer, Horiz. Drive, TLN1083 T461 23236454 Transformer, Flyback, TFB4117AR ≜T801 23211891 Line Filter, TRF3164	Location No.	Part No.	Description
L421 23248116 Coil, Choke, TLN3368D L441 23233948 Coil, Linearity, TLN2137G L442 23221894 Coil, Choke, TLN3063 L590 23289100 Coil, Peaking, TRF4100AF L811 23103859 Coil (Ferrite Bead), TEM2011 L821 23222694 Coil, Width, TLN2026 L823 23221747 Coil, Choke, TRF9253D L826 23248073 Coil, Choke, TLN3299D L829 23103859 Coil (Ferrite Bead), TEM2011 L866 23289229 Coil, Peaking, TRF42R2AF △L901 23200275 Coil, Peaking, TRF41R0AF LA02 23289109 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM2011 LA04 23103859 Coil (Ferrite Bead), TEM2011 LA04 23103859 Coil (Ferrite Bead), TEM2011 LA05 23103859 Coil (Ferrite Bead), TEM2011 LA05 23103859 Coil (Ferrite Bead), TEM2011 LA06 23228910 Coil, Peaking, TRF41R0AF LTM COIL (The Bead), TEM2011 LTM COIL (The Trib Tri	L412	23221684	Coil, Choke, TLN3191D
L441 2323948 Coil, Linearity, TLN2137G L442 23221894 Coil, Choke, TLN3063 L890 23289100 Coil, Peaking, TRF4100AF L821 23222694 Coil, Width, TLN2026 L823 2322174 Coil, Choke, TRF9253D L826 23248073 Coil, Choke, TRF9253D L829 23103859 Coil (Ferrite Bead), TEM2011 L866 2328922 Coil, Peaking, TRF42R2AF L8901 23200275 Coil, Degaussing, TSB-2329BR LA02 23289109 Coil, Peaking, TRF42R2AF LA03 23103859 Coil (Ferrite Bead), TEM2011 LA04 23103859 Coil (Ferrite Bead), TEM2011 LA05 23103859 Coil (Ferrite Bead), TEM2011 LA06 23103859 Coil (Ferrite Bead), TEM2011 LA06 23103859 Coil (Ferrite Bead), TEM2011 LA01 23221896 Coil, Choke, TLN3061 LV01 23238714 Coil, Feaking, TRF4100AJ T103 23262813 Coil, Fransformer, Horiz. Drive, TLN1083 ΔT461 23236454 Transformer, Flyback, TFB4117AR ΔT801 23211891 Line Filter, TRF3164 ΔT803 23217352 Transformer, Converter, TPW3368AR SEMICONDUCTORS Q101 23119441 IC, LA7910 Q301 B0378560 IC, TA8427K Q601 23119668 IC, TDA2611A Q835 23318299 IC, TRM1031XS Q105 A6708871 Transistor, 2SC1815-Y Q110 A6317440 Transistor, 2SC1815-Y Q111 A6317440 Transistor, 2SC1815-Y Q111 A6317440 Transistor, 2SC1815-Y Q112 A6534053 Transistor, 2SC1815-Y Q114 A6547250 Transistor, 2SC1815-Y Q104 A6789710 Transistor, 2SC1815-Y Q406 A6534053 Transistor, 2SC1815-Y Q406 A6534053 Transistor, 2SC1815-Y Q406 A6534053 Transistor, 2SC1815-Y Q407 A6547250 Transistor, 2SC1815-Y Q408 23905815 IC, UPC2412AHF Q409 A6634053 Transistor, 2SC1815-Y Q400 A6534053 Transistor, 2SC1815-Y Q500 A633005 Transistor, 2SC1815-Y Q500 A633005 Transistor, 2SC1815-Y Trans	L414	23103859	Coil (Ferrite Bead), TEM2011
L442 23221894 Coil, Choke, TLN3063 L590 23289100 Coil, Ferrite Bead), TEM2011 L821 23222694 Coil, Width, TLN2026 L823 23221747 Coil, Choke, TLN3299D L829 23103859 Coil (Ferrite Bead), TEM2011 L826 23289229 Coil, Choke, TLN3299D L829 23103859 Coil (Ferrite Bead), TEM2011 L826 23289229 Coil, Degaussing, TSB-2329BR L820 23289109 Coil, Peaking, TRF42R2AF ΔL901 23200275 Coil, Degaussing, TSB-2329BR L820 23289109 Coil, Ferrite Bead), TEM2011 L821 23203859 Coil (Ferrite Bead), TEM2011 L822 23289109 Coil, Ferrite Bead), TEM2011 L823 23103859 Coil (Ferrite Bead), TEM2011 L825 23103859 Coil (Ferrite Bead), TEM2011 L826 23103859 Coil (Ferrite Bead), TEM2011 L826 23103859 Coil (Ferrite Bead), TEM2011 L827 Coil, Choke, TLN3061 L827 Coil, Ferrite Bead), TEM2011 Transformer, Horiz, Drive, TLN1083 Transformer, Horiz, Drive, TLN1083 Transformer, Flyback, TEB4117AR T801 2321891 Line Filter, TRF3164 TRB01 2321891 Line Filter, TRF3164 TRB01 2321950 IC, TA8427K TRB01 2319504 IC, TRAS155 Y Transistor, 2SC1815-Y Transistor, 2SC3619 Transistor, 2SC361	L421	23248116	
LS90 23289100 Coil, Peaking, TRF4100AF L821 23222694 Coil, Width, TLN2026 L823 23221747 Coil, Choke, TRF9253D L826 23248073 Coil, Choke, TLN3299D L829 23103859 Coil (Ferrite Bead), TEM2011 L866 23289229 Coil, Peaking, TRF42RAF ♣ L901 23200275 Coil, Peaking, TRF42RAF ♣ L901 23200275 Coil, Peaking, TRF42RAF ♣ L901 2320375 Coil, Peaking, TRF42RAF ♣ L901 2320375 Coil, Peaking, TRF41R0AF LA03 23103859 Coil (Ferrite Bead), TEM2011 LA04 23103859 Coil (Ferrite Bead), TEM2011 LA05 23103859 Coil (Ferrite Bead), TEM2011 LA06 23103859 Coil (Ferrite Bead), TEM2011 LA07 23221896 Coil, Choke, TLN3061 LV01 23238714 Coil, Peaking, TRF4100AJ T103 2326871 Coil, If, TRF1007D T401 23224336 Transformer, Horiz. Drive, TLN1083 ♣ T801 23211891 Transformer, Flyback, TFB4117AR Line Filter, TRF3164 ♣ T801 23211891 IC, LA7910 LG301 B0378560 IC, TAB427K LG835 23318299 IC, L78MR05 LC, TAB427K LG835 23318299 IC, TDA2611A LG835 23318299 IC, L78MR05 LC, TAB427K LG835 23318299 IC, L78MR05 LC, TMA1031XS LC, TMA2611A LG835 23318299 IC, L78MR05 LC, TMA2611A LG835 23318299 IC, TAB315V Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE L4040 A6872801 Transistor, 2SA1015-Y(TE L4040 A6872801 Transistor, 2SC3619 LG90 A631040 Transistor, 2SC3619 LG90 A6330053 Transistor, 2SA1015-Y(TE L405 A6330053 Transistor, 2SC3619 LG90 A6330059 Transistor, 2SC3619 LG90 A6330059 Transistor, 2SC3619 Transistor, 2SC3619 Transistor, 2SC3619 Transistor, 2SC3619 LG90 A6317440 Transistor, 2SC3619 Tr	L441	23233948	Coil, Linearity, TLN2137G
L811 23103859 Coil (Ferrite Bead), TEM2011 L821 2322694 Coil, Width, TLN2026 L823 23221747 Coil, Choke, TRF9253D L826 23248073 Coil, Choke, TRF9253D L826 23248073 Coil, Choke, TRF9253D L829 23103859 Coil (Ferrite Bead), TEM2011 L866 2328922 Coil, Peaking, TRF42RAF L901 23200275 Coil, Degaussing, TSB-2329BR LA02 23289109 Coil, Peaking, TRF41R0AF LA04 23103859 Coil (Ferrite Bead), TEM2011 LA05 23103859 Coil (Ferrite Bead), TEM2011 LA06 23103859 Coil (Ferrite Bead), TEM2011 LD02 23221896 Coil, Choke, TLN3061 LV01 23238714 Coil, Feaking, TRF41R0AF LV01 23238714 Coil, Feaking, TRF4100AJ T103 23262813 Coil, IF, TRF1077D T401 23224336 Transformer, Horiz. Drive, TLN1083 ΔT461 23236454 Transformer, Flyback, TFB4117AR ΔT801 23211891 Line Filter, TRF3164 ΔT803 23217352 Transformer, Converter, TPW3368AR SEMICONDUCTORS Q101 23119441 IC, LA7910 Q301 B0378560 IC, TA8427K Q601 23119668 IC, TDA2611A Q835 23318299 IC, L78MR05 Q105 A6708871 Transistor, 2SC1815-Y Q110 A6317440 Transistor, 2SC1815-Y Q111 A6317440 Transistor, 2SC1815-Y Q111 A6317440 Transistor, 2SC1815-Y Q112 A6534053 Transistor, 2SC1815-Y Q114 A678971D Transistor, 2SC1815-Y Q340 A6534053 Transistor, 2SC1815-Y Q406 A6534053 Transistor, 2SC1815-Y Q407 A6647250 Transistor, 2SC1815-Y Q408 23904844 IC, MCT7809BT Q509 A6363200 Transistor, 2SC3619 Q500 A6317440 Transistor, 2SC3619 Q500 A6317440 Transistor, 2SC3619 Q500 A63634053 Transistor, 2SC3619 Q500 A63634054 Transistor, 2SC3815-Y Q500 A6363200 Transistor, 2SC3878-A(TE Q500 A6317440 Transistor, 2SC3815-Y Q500 A6317440 Transistor, 2	L442	23221894	Coil, Choke, TLN3063
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Q340 A6534053 Transistor, 2SA1016-Y(TE Q402 A678971D Transistor, 2SC1669 FA-5 Q405 A6317440 Transistor, 2SC1815-Y Q406 A6534053 Transistor, 2SA1015-Y(TE Q408 23905815 IC, UPC2412AHF Q470 A6547250 Transistor, 2SA1015-Y(TE Q501 23904604 IC, TDA962 Q502 23904604 IC, TDA962 Q504 A6534053 Transistor, 2SA1015-Y(TE Q505 A6534053 Transistor, 2SC3619 Q506 A6534053 Transistor, 2SC3619 Q507 A6363200 Transistor, 2SA1015-Y(TE Q508 A6534053 Transistor, 2SC3619 Q509 A6363200 Transistor, 2SC3619 Q509 A6363200 Transistor, 2SC3619 Q510 A633059 Transistor, 2SC3619 Q511 23314791 Transistor, 2SC3619 Q604 A6534053 Transistor, 2SC3619 Q604 A6534053 Transistor, 2SC3619 Q606 A6010040			Transistor, 2SA1015-Y(TE
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Q470 A6547250 Transistor, 2SA1320 Q480 23904804 IC, TDA8362 Q501 23904606 IC, TDA4661 Q504 A6534053 Transistor, 2SA1015-Y(TE Q505 A6534053 Transistor, 2SC3619 Q506 A6534053 Transistor, 2SA1015-Y(TE Q507 A6363200 Transistor, 2SC3619 Q508 A6534053 Transistor, 2SC3619 Q509 A6363200 Transistor, 2SC3619 Q510 A6330059 Transistor, 2SC3619 Q511 23314791 Transistor, 2PA1015-Y(TE Q604 A6534053 Transistor, 2PA1015-Y(TE Q606 A6010040 Transistor, 2SC1815-Y(TE Q607 A6317440 Transistor, 2C1815-Y Q608 A6317440 Transistor, 2C1815-Y			
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Q501 23904604 IC, TDA8362 Q502 23904605 IC, TDA4661 Q504 A6534053 Transistor, 2SC3019 Q505 A6363200 Transistor, 2SC3619 Q506 A6534053 Transistor, 2SC3619 Q507 A6363200 Transistor, 2SC3619 Q509 A6363200 Transistor, 2SC3619 Q510 A6330059 Transistor, 2SC2482(C) Q511 23314791 Transistor, 2PA1015Y Q603 A6342206 Transistor, 2PA1015Y Q604 A6534053 Transistor, 2SC1815-Y(TE Q606 A6010040 Transistor, RN2004 Q607 A6317440 Transistor, 2SC1815-Y Q608 A6317440 Transistor, 2SC1815-Y			
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Q505 A6363200 Transistor, 2SC3619 Q506 A6534053 Transistor, 2SA1015-Y(TE Q508 A6534053 Transistor, 2SC3619 Q509 A6363200 Transistor, 2SC3619 Q510 A6330059 Transistor, 2SC2482(C) Q511 23314791 Transistor, 2PA1015Y Q603 A6342206 Transistor, 2SC2878-A(TE Q606 A6010040 Transistor, RN2004 Q607 A6317440 Transistor, 2SC1815-Y Q608 A6317440 Transistor, 2SC1815-Y			
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Q510			
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Q607 A6317440 Transistor, 2SC1815-Y Q608 A6317440 Transistor, 2SC1815-Y			
Q608 A6317440 Transistor, 2SC1815-Y			
Q609 A6342206 Transistor, 2SC2878-A(TE			
	0609	A6342206	Transistor, 2SC2878-A(TE

Location No.	Part No.	Description
Q613		Transistor, 2SC1815-Y
Q801	23314146	IC(STR), STR58041
Q802	A6534145	Transistor, 2SA1020-Y(C)
Q803	A6333346	
Q804	A6317440	
Q805	A6317440	
Q806		Transistor, 2SC1815-Y
∆ Q826		Photo Coupler, TLP621(GR-LF
Q828	A6317440	
Q831	A6317440	
Q836	23114530	
Q861	A6333346	
Q870	A6333346	
Q871	A6317440	Transistor, 2SC1815-Y
QA01	23905826	IC, SAA5290ZP/053
QA02		IC, NM24C02EN
QA03	23114528	
QA04	A6317440	
QA08	A6317440	Transistor, 2SC1815-Y Transistor, 2SC1815-Y
QA10	A6317440	
QA25	A6317440	Transistor, 2SC1815-Y
QD01	A6625365 23314794	
QD02		Transistor, 2PC1815Y
QD03 QD04	A6534053 A6342206	
QM01	23904608	IC, TDA8395
		Transistor, 2SC1815-Y
QV01 QV03	A6317440 A6534053	
QV05	A6317440	Transistor, 2SC1815-Y
	A6002030	Transistor, 25C1815-1
QV07 QV10	22114520	Transistor, AN 1203
QV11	23114528 23114528	Transistor, 2SC1740S-Q Transistor, 2SC1740S-Q
QV12	23114320	Transistor, 2SC1740S-Q
D101	23115599	Diode, 1N4148
D108		Diode, Zener, µPC674J, (L)
D109	23115599	Diode, 1N4148
D111		Diode, 1N4148
D201	23115599	Diode, 1N4148
D202	A7150041	
D203	23115599	Diode, 1N4148
D301	23118479	
D302	23118479	Diode, BYD33J
D312	23316794	Diode, SC570A
D320	23118822	Diode, ERB12-02
D321	23118822	Diode, ERB12-02
D340	23316658	Diode, Zener, MTZJ3.6A
D401	23316792	Diode, SC215
D403		Diode, Zener, MTZJ9.1C
D406	23118479	Diode, BYD33J
D408	23118052	Diode, RU4Z
D410	23316687	Diode, Zener, MTZJ9.1B
D471	A7801205	SCR, SF0R3G42
D474	23316733	Diode, Zener, MTZJ20A
D475	23316719	Diode, Zener, MTZJ12B
D476	23118479	Diode, BYD33J
D501	23316669	Diode, Zener, MTZJ5.1B
D503	23115599	Diode, 1N4148
D591	23316554	Diode, 1SS146
D592	23316554	Diode, 1SS146
D593	23316554	Diode, 1SS146
D594	23115599	Diode, 1N4148
	23115599	Diode, 1N4148
D601		
D601 D602 D603	23115599	Diode, 1N4148 Diode, 1N4148

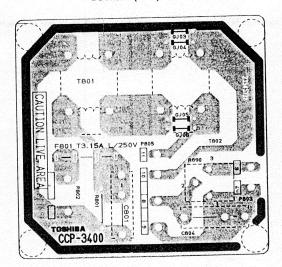
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	Location	Part No.	Description
ì	No.	rait No.	Description
ı	Dear	23115599	Diode, 1N4148
1	D605 D610	23115599	
1		23118037	Diode, 1N4148
١	D801		Diode, RBV-406MLB
ı	D810	23316725	Diode, Zener, MTZJ15B
ı	D811	23115599	
١	D812	23118479	Diode, BYD33J
1	D813	23115599	Diode, 1N4148
ı	D814	23316672	
ı	D815	23115599	
ı	D816	23316648	
ı	D817	23118479	Diode, BYD33J
ı	D818	23118479	Diode, BYD33J
ı	D819	23316675	
ı	D830	23118052	Diode, RU4Z
1	D832	23118451	Diode, RU-4A
1	D847	23115599	Diode, 1N4148 Diode, Zener, MTZJ4.7B
1	D848	23316666	Diode, Zener, MTZJ4.7B
1	D860	23316674	
1	D861	23316669	
	D870	23115599	Diode, 1N4148
J	D875	23115599	Diode, 1N4148
1	D878	23316689	
1	DA01	23316675	
1	DA02	23115599	
1	DA03	23115599	Diode, 1N4148
1	DA32	23115599	Diode, 1N4148
1	DA99	23115599	
1	DD01	23118479	
ı	DD02	23316582	Diode, ERC20-06
	DD03	23118479	Diode, BYD33J
1	DD04	23115599	Diode, 1N4148
ì	DD05	23115599	Diode, 1N4148 Diode, 1N4148
1	DD06	23118969	Diode (LED), MV57124, Red
	DE50 DN01	23316669	
	DV01	23115599	Diode, 1N4148
	DV04	23115599	
	DV05		Diode, Zener, MTZJ4.7B
	DV07		Diode, Zener, MTZJ5.18
	DX01	23115599	Diode, 1N4148
	DX03	23115599	Diode, 1N4148
	DX04	23115599	Diode, 1N4148
1			
-	MISCELLAN	EOUS	
	△F801	23144898	Fuse, 3.15A
	F801A	23165433	Holder, Fuse
.	 ∆F803	23144874	Fuse, 0.8A
	F803A	23165433	Holder, Fuse
	K901	23904750	Remote
	P661	23365432	Jack, Earphone
	▲ P801	23372014	Power Cord
1	PH01	23365598	Connector, 21Pin
	S202	23344333	Switch, Lever, 1C3P
	 ∆S801	23145434	Switch, Power, 2C2P
	SA01	23145430	
	SA02	23145430	
	SA03	23145430	
	SA04	23145430	Switch, Push, 1C1P
	∆V901A	23902891	Socket, CRT, 10P
	W661	23351031	
	Meea	22251024	60x70mm, 3W
	W662	23351031	Speaker, SPK-1306, 60x70mm, 3W
	X501	23153360	
	V20.1	53100300	Crystal, 4.43IVITIE

Location No.	Part No.	Description
XA01	23153930	Crystal, 12.0MHz
Z102	23303132	Filter, K2950M, 38.9M
Z103	23107855	Ceramic Filter, 5.5MHz, TCF1031
Z104	23107949	Ceramic Filter, 6.5MHz, SFE6.5MBF
Z105	23107927	Ceramic Video Trap, 5.5MHz TCF1011
Z106	23107521	Ceramic Video Trap, 6.5MHz TCF1068
Z604	23107744	Filter, TEM1012
7605	23107744	Filter, TEM1012
Z606	23107744	Filter, TEM1012
Z607	23107744	Filter, TEM1012
Z608	23107744	Filter, TEM1012
Z609	23107744	Filter, TEM1012
ZA01	24094645	Capacitor Block,
		0.01μFx4, 50V
C BOAR	ASSEMB	LIES
* U902A	23706067	Main Board, PB6608E
* U903A	23705767	
* U903B	23705768	
* U903C	23705769	
* U903D	23705770	CRT Drive Boaard, PB6609A

Location No.	Part No.	Description
PICTURE 1	UBE	
∆V901	23312643	Picture Tube, A59TMZ40X06
TUNER		
H001	23321209	Tuner, EGA13
ACCESSO	RIES	
K902	23306084	Remote Hand Unit, CT-9784
AT03	23305743	Battery Cover
Y101	23562918	Owner's Manual, English, 2562TR
Y102	23562919	Owner's Manual, Russian, 2562TR

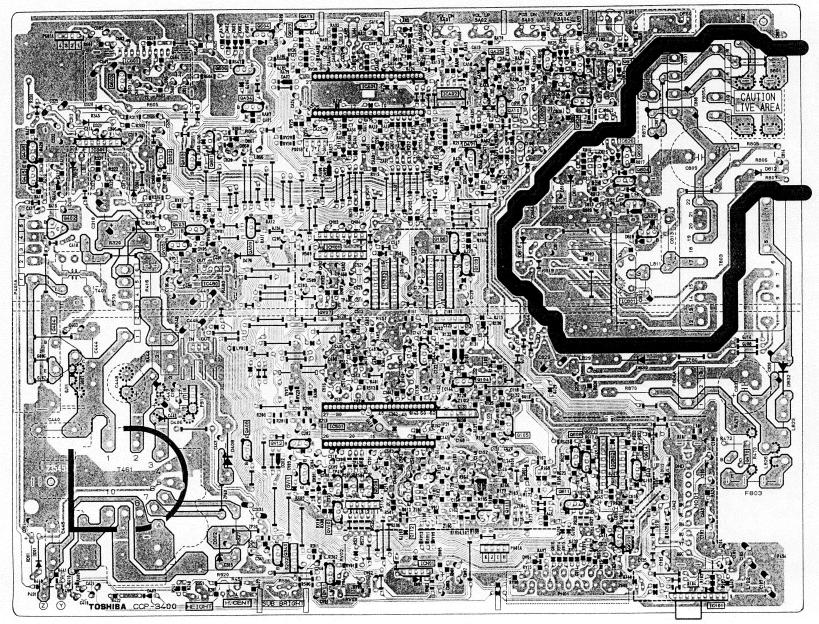
POWER BOARD PB6609A1

BOTTOM (FOIL) SIDE



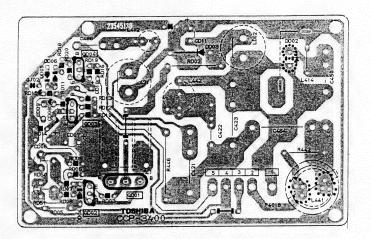
MAIN BOARD PB6608E-1

BOTTOM (FOIL) SIDE



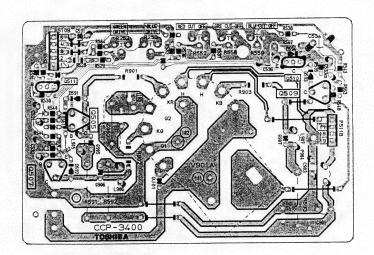
DPC BOARD PB6609A3

BOTTOM (FOIL) SIDE



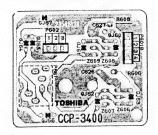
CRT DRIVE BOARD PB6609A4

BOTTOM (FOIL) SIDE



HEADPHONE BOARD PB6609A2

BOTTOM (FOIL) SIDE



TERMINAL VIEW OF TRANSISTORS

	BC327 BC337 BC547A	2	2SK30ATM 2SK117		③ BD202	4	BF871 2SD553 2SC1569	(5)	2SC3678 2SC3182N)	Э
	BC5547B BC557A BC557A BC557B BC556A		DGS		E CB		BCE		E C B)	C
	2SD1427 2SD1432 E C B		2SC2482 2SA1321 2SC2230 2SA1020 2SA1020 2SC2655 2SC2655 2SC752GTM	8	2SC388ATM 2SA1015 2SC1959 2SA562TM	9	2SD1548	0	2SC2023))
Φ	ON4409										

	SPECIFICATIONS
Input Power Rating:	94 watts, AC 220 volts, 50 Hz
Aerial Input Impedance:	75 ohm unbalanced type for UHF and VHF
Receiving Channels:	CCIR (B/G PAL/SECAM) TV Broadcast Standard VHF: 2-4, 5-12, S1-S20, S21-S41 UHF: 21-69 CCIR (D/K PAL/SECAM) TV Broadcast Standard VHF: 2-4, 5-12, S1-S20, S21-S41 UHF: 21-69
Intermediate Frequencies:	Picture I-F carrier frequency
Picture Tube:	25 inches, A59TMZ40X06 590 mm (measured on diagonal of viewable picture area), 110* deflection
Sound Output:	3 watts (at 10% harmonic distortion) × 2
Speakers:	70 × 60 mm round 2 pc
Aux. Terminals:	21 pin socket (FULL)
Cabinet:	Table type
Dimensions:	Height 556 mm Width 600 mm Depth 442 mm
Mass:	26 kg

Specifications are subject to change without notice.

SCHEMATIC DIAGRAM

MODEL: 2562TR

CAUTION: The international hazard symbols "A" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAVEFORMS

- 1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.

 2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.

- Maveforms are taken using a standard colour bar signal.
 Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

- Resistance is shown in ohm, k=1,000, M=1,000,000
 Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
 Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

NOTES:

- D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
 The circuits are subject to change without notice.
- 3. 😩 : Solder links.

NOTE: DO NOT USE DIGITAL VOLT METER FOR MEASURING COLLECTOR VOLTAGE OF Q404.

C4ER CIRCUIT SPEC COMPONENT VALUES BY CPT TYPE

No. Loc. No.	RI	
1		R2
2		
3		
4		
5		
6		
7		
8		
9		
0		
1		
2		
3		

C4ER CIRCUIT SPEC COMPONENT VALUES BY CRYSTAL TYPE (SUPPLIER)

pc T	
	R6
[N.D.K.]	IPHILIPS)
	RS (N.D.K.)

	UNIT SH.	
MAIN	SN.	
CRT-D	5M.	- I I
<u> </u>		
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COPPER SIDE PARTS		
D410	SN. 23316324	
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